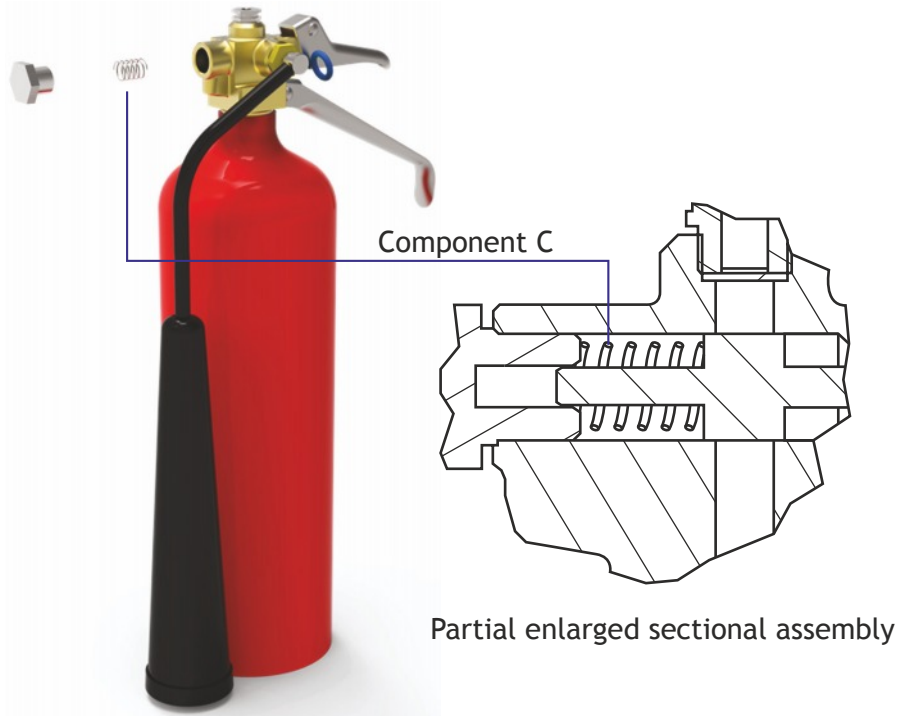


Total marks — 70  
Attempt ALL questions

1. A CAD Technician created a 3D model of the fire extinguisher, shown below.



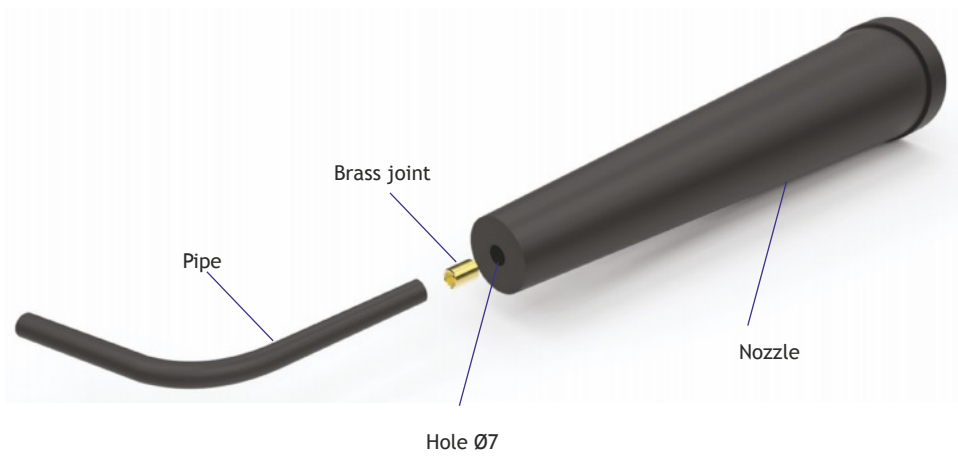
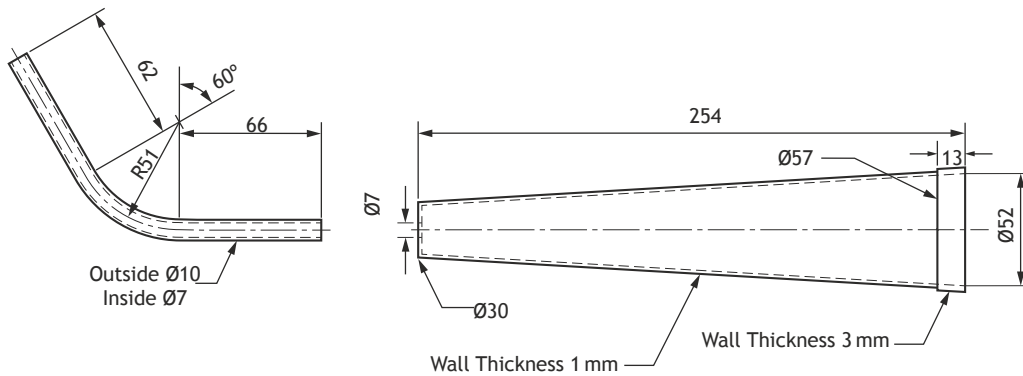
- (a) Component C was modelled using 3D CAD.

Describe the 3D CAD modelling technique used to create component C. **2**

You may use sketches to illustrate your answer.

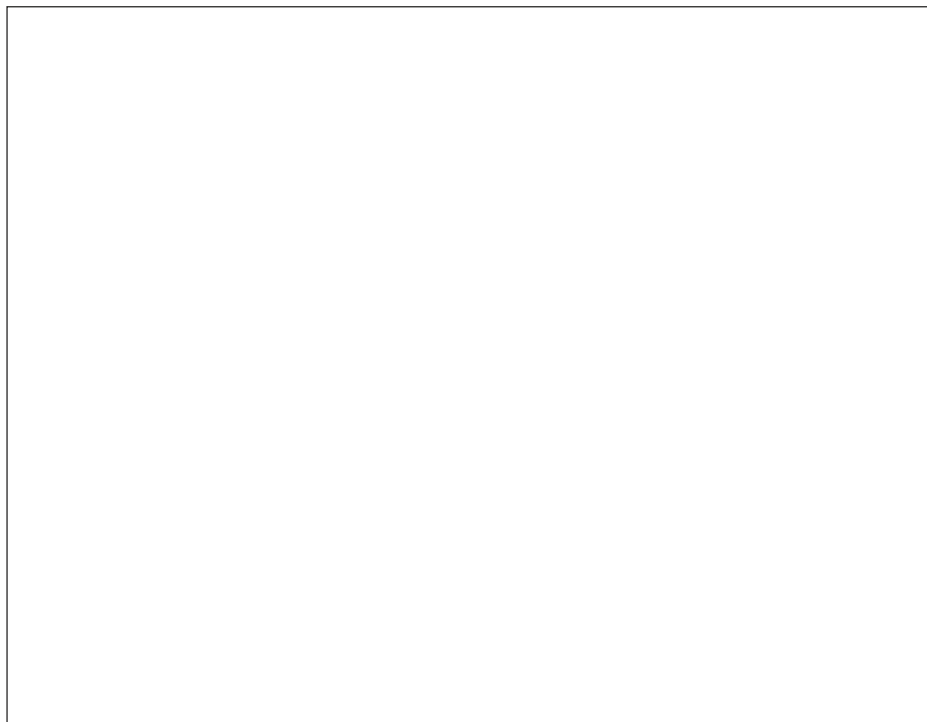
1. (continued)

A drawing of the pipe and nozzle sub-assembly is shown below. This was used by the CAD Technician to create models of the individual components.



(b) Describe the 3D CAD modelling techniques used to create the pipe component. Refer to the dimensions given in the drawing.

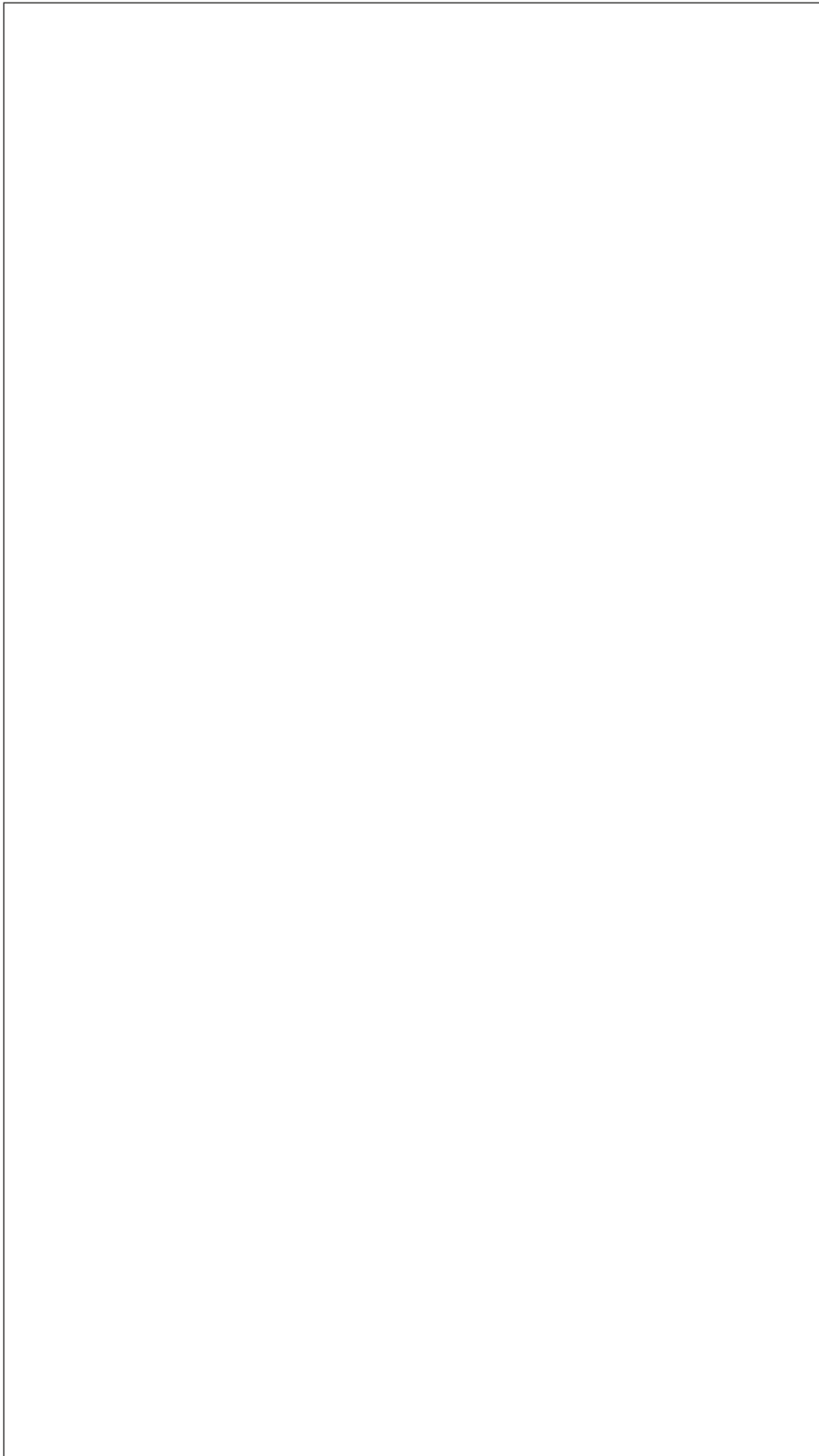
3



1. (continued)

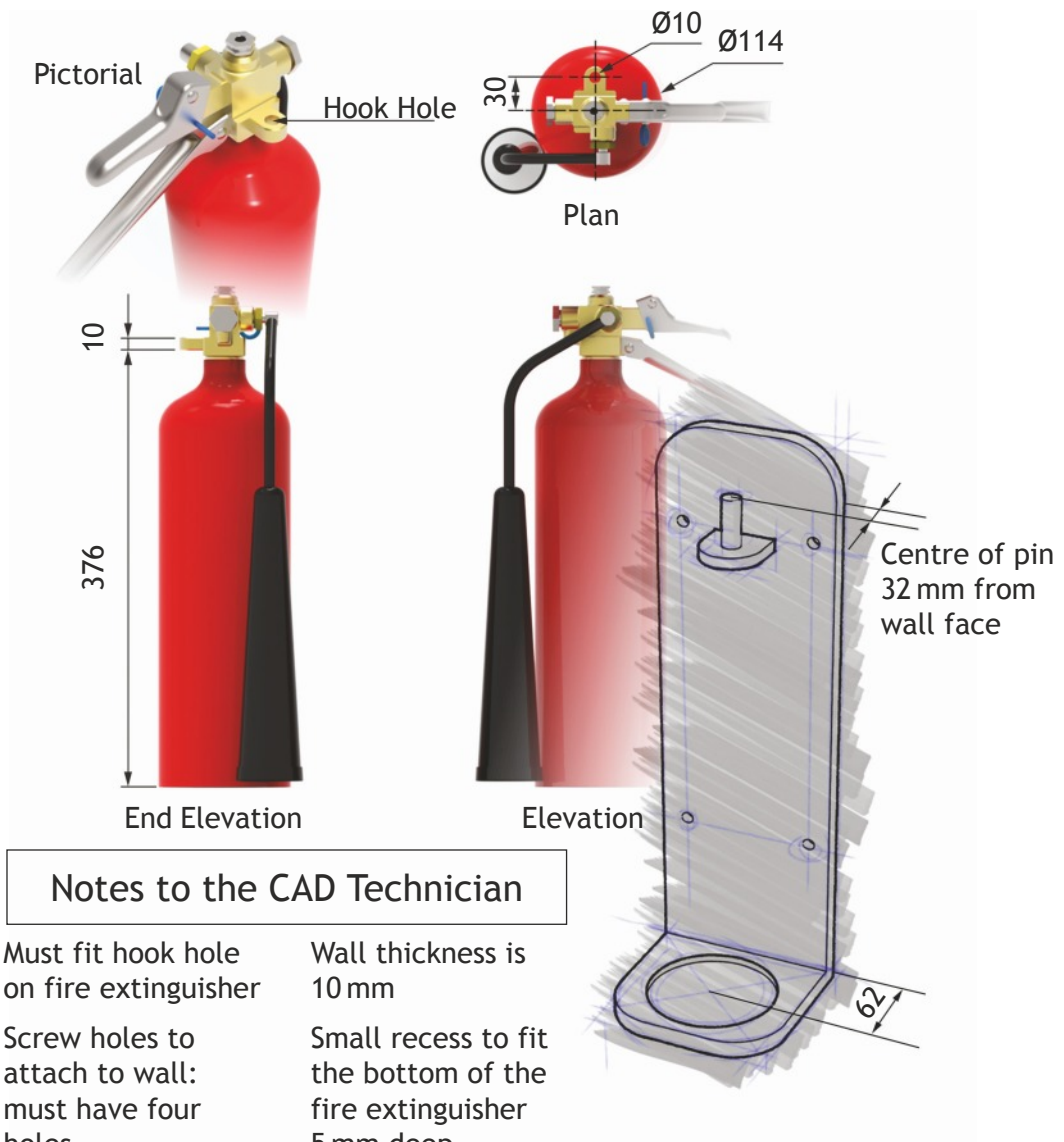
- (c) Describe the 3D CAD modelling techniques used to create the nozzle component. Refer to the dimensions given in the drawing.

6



1. (continued)

The manufacturer of the fire extinguisher would like to provide a simple wall bracket to hold their product.



1. (continued)

- (d) Describe the 3D CAD modelling techniques used to create the wall bracket.

Use measurements from the rendered orthographic and the “Notes to the CAD Technician”. You may use sketches to explain your answer.

7

